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10/622,199

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EXAMINER

CRUZ, IRIANA

ART UNIT

PAPER NUMBER

2625

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |                                    |  |
|------------------------------|--------------------------------------|------------------------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/622,199 | <b>Applicant(s)</b><br>EDEN ET AL. |  |
|                              | <b>Examiner</b><br>IRIANA CRUZ       | <b>Art Unit</b><br>2625            |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 March 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,4-6,8,9,11,14 and 19-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21 and 22 is/are allowed.
- 6) ☒ Claim(s) 1,4,8-9,11,14,19 and 20 is/are rejected.
- 7) ☒ Claim(s) 5,6 and 15-17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims 1,4,6,9,11,14,17 and 20 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 1, 4, 11 and 14** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier (US Publication Number 2002/0122205 A1) in view of Moles (US Publication Number 2004/0193910 A1) and further in view of Kesselman et al. (US Publication Number 2003/0233366 A1).

Regarding **Claim 1**, Gauthier'205 shows a method for controlling a printer device responsive to a document's print content (**i.e., the variable data contains the content of a print document. A method control that can identify the variable data and depending on it executes a command could be a control method responsive to the variable data ((print content document)). See Paragraphs 11-15**), the method comprising: establishing a library of vocabulary terms (**i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data this graphic state is reserved in an internal database/library for later use. See Paragraphs 10, 12 and 14-15**); establishing a library of executable programs

(i.e., each graphic state ((text or graphic/symbol)) has a bit map in correspondence which is saved in a library ((internal data base)). The page description code program is called when a graphic state is identified in the variable data, to execute the corresponding code that generates the bit map information corresponding to the graphic state ((text or graphic/symbol)) identified. The page description code programs for each graphic state ((text or graphic/symbol)) found is reserved in a library ((internal data base)). See Paragraphs 11-15), mapping between the library of vocabulary terms and the library of executable programs (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page description code program found in the executable program library ((internal data base)). See Paragraphs 11-15); accepting a document for printer processing (i.e., a document ((image containing text and/or graphics data)) is ready to be sent to print and the variable data is created to be printed. See Paragraphs 15 and 22-23); classifying print content in the document by matching print content in the document to vocabulary terms in the library (i.e., every time a graphic state ((text or graphic/symbol)) is identified ((classified)) on the variable data it is found on the library previously created. See Paragraphs 11-15); and, executing a program in response to the print content classification by selecting an executable file in response to mapping between matched vocabulary terms and executable programs (i.e., every time a graphic state ((text or graphic/symbol)) is identified on the variable data it is found on the library and mapped to its executable page

**description code program found in the executable program library ((internal data base)). See Paragraphs 11-15).**

Gauthier'205 (although it shows a library with executable programs) fails to show the library of executable programs selected from a group consisting of updating a database, archiving the document, and executing a plurality of programs to initiate additional document processing.

Moles'910 teaches a library of executable programs selected from a group **(i.e., a memory/database/library stores a plurality of executable programs. See Claim 17)** consisting of blocking the document print process, updating a database, archiving the document, and executing a plurality of programs to initiate additional document processing **(i.e., executing a plurality of programs for document processing like shadowing/blocking data that should not be shown when identified for any further use of the document ((like printing)), storing documents and updating the database where the documents are found. See Paragraph 7-13 and 37).**

Having the system of Gauthier'205 and then given the well-established teaching of the Moles'910, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system as suggested by the combination of Gauthier'205 with the teachings of Moles'910 of having a library of executable programs consisting of a plurality of programs for document processing, in order to increase the capacity of the system with a wide resource of options of executable programs.

The combination of Gauthier'205 and Moles'910 fails to show the library of executable programs consisting of sending reports of the document to a recipient, logging the document print process.

Kesselman'366 teaches executable programs consisting of sending reports of the document to a recipient **(i.e., one of the executable programs is sending a report of the data/document is sent to the recipient. See Paragraphs 3-4, 7-8 and 59),** logging the document print process **(i.e., a document can be sent to destinations like printer to continue/initiate processing or be printed. See Paragraphs 29).**

Having the system of Gauthier'205 and Moles'910 and then given the well-established teaching of the Kesselman'366, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system as suggested by the combination of Gauthier'205 and Moles'910 with the teachings of Kesselman'366 by adding sending reports of the document to a recipient and logging the document print process as other options for executable programs, in order to increase the capacity of the system with a wide resource of options of executable programs.

Regarding **Claim 4**, Gauthier'205 shows a method that establishes a library of vocabulary terms includes establishing a library of vocabulary terms selected from the group including key words, symbols, word patterns, and data patterns **(i.e., when a graphic state ((graphic state can be referred as text or graphic/symbol)) is identified in the variable data ((print document content)) this graphic state is reserved in an internal database/library for later use. The graphic state could be**

**text graphic/images or codes. Key words, data patterns and word patterns can be interpreted as text, and symbols can be images. See Paragraphs 10, 12 and 14-15).**

With regards to method **Claim 11**, the limitation of the claim 11 are corrected by limitation of claim 1 above. The steps of claim 11 read into the function step of claim 1.

With regards to method **Claim 14** the limitation of the claim 14 are corrected by limitation of claim 4 above. The steps of claim 14 read into the function step of claim 4.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 8-9 and 19-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier (US Publication Number 2002/0122205 A1) in view of Moles (US Publication Number 2004/0193910 A1), further in view of Kesselman et al. (US Publication Number 2003/0233366 A1) and in further in view of Hull et al. (US Patent Number 5,978,477).

Regarding **Claim 8**, the combination of Gauthier'205, Moles'910 and Kesselman'366 fails to show accepting a bitmap document; performing optical character recognition (OCR) of the bitmap document; generating text strings; and, wherein

accepting a document for printer processing includes accepting the generated text strings.

Hull'477 shows accepting a bitmap document **(i.e., the format of the received document is converted to a desired format for storing. See Column 7, Lines 47-54);** performing optical character recognition (OCR) of the bitmap document **(i.e. optical character recognition is used to convert the received document format to text. See Column 7, Line 54-63);** generating text strings **(i.e., the OCR creates plain text for further processing of document ((indexing)) where keyword/text strings are saved to perform full text searching for retrieval. See Column 7, Line 55-66);** and, wherein accepting a document for printer processing includes accepting the generated text strings **(i.e., the document is accepted for indexing/processing with the generated archived keywords ((text strings)) for full text searching needed for later document retrieval/processing. See Column 7, Line 60-67).**

Having the system of Gauthier'205, Moles'910 and Kesselman'366 and then given the well-established teaching of the Hull'477, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the system of Gauthier'205, Moles'910 and Kesselman'366 as taught by the Hull'477 by adding to the accepting a bitmap document; performing optical character recognition (OCR) of the bitmap document; generating text strings; and, wherein accepting a document for printer processing includes accepting the generated text strings, in order to improve the systems method efficiency by adding tools that will help identify the documents content ((for later processing)) in a faster and efficient way.



Regarding **Claim 9**, The combination of Gauthier'205, Moles'910, Kesselman'366 and Hull'477 shows the control method processing the document using a process selected from the group including scanning, faxing, archiving, transmitting, and paper copy reproduction (i.e., This process could be implemented in a scanner, copy machine or faxing machine. See Column 2, Line 57-67 and Column 6, Line 58-64 in reference Hulls).

With regards to method **Claim 19**, the limitation of the claim 19 are corrected by limitation of claim 8 above. The steps of claim 19 read into the function step of claim 8.

With regards to method **Claim 20**, the limitation of the claim 20 are corrected by limitation of claim 9 above. The steps of claim 20 read into the function step of claim 9.

### ***Allowable Subject Matter***

1. **Claims 5-6 and 15-17** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: none of the references, either singularly or in combination teach a method controlling a printer device responsive to a document's print document where the method generates a printer driver output file; interpreting the printer driver output file into a rasterized image; wherein matching print content in the document to vocabulary terms in the library includes: parsing the rasterized image into tokens; identifying tokens that represent data to be printed; buffering the data to be printed; and, examining the buffered data for vocabulary terms.

2. **Claim 21 and 22** are allowed. The following is an examiner's statement of reasons for allowance: these claims have been amended like recommended in previous office actions objection to allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IRIANA CRUZ whose telephone number is (571)270-3246. The examiner can normally be reached on Monday-Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Y. Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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June 5, 2008

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